

ABSTRACT OF THE DISCLOSURE

A system (10) and method for forming and quenching glass sheets with curvatures both along and transverse to a direction of conveyance includes a furnace (12) having an exit end (22) with a roll bending station (14), a press bending station located downstream from the exit end of the furnace and having a lower ring mold (46) and an upper press mold (48) operated by an actuator (50), and a quench station (18) that provides toughening of the formed glass sheet. The location of the roll bending station (14) with sets (30) of inclined bending rolls (32) having increasing inclinations along the direction of conveyance together with the external press station (16) and the quench station (18) provides the glass sheet forming without the necessity for excessive heating so that the glass is sufficiently hot upon quenching to provide the toughening.